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JOHNSON & STAINBROOK, LLP
Registered Patent Attorneys
Patents, Trademarks, Copyrights
And Related Matters

Marin County Office:
165 N. Redwood Dr.
Suite 110
San Rafael, CA 94903
TEL: (415) 499-8822
FAX: (415) 472-4347

Sonoma County Office:
3558 Round Barn Blvd.
Suite 203
Santa Rosa, CA 95403
TEL: (707) 578-9333
FAX: (415) 578-3133

June 9, 2004

COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing is the Provisional Patent Application (35 U.S.C. §111) of inventor Lester M. Schwab, having a residence and address of 2479 Royal Oaks Drive, Alamo, CA 94507, for an IV COMPATIBLE LIMB STABILIZATION APPARATUS, INCLUDING HUMAN APPLICATION.

Enclosed are the following:

Specification (4 pages);

Drawings (1 page);

Credit Card Payment Form for the filing fee of \$80.00 (Applicant is entitled to Small Entity Status).

Please direct all correspondence to the undersigned.

Very truly yours,



Larry D. Johnson
Registration #31,528
Attorney for Applicant
Johnson & Stainbrook LLP
3558 Round Barn Blvd., Suite 203
Santa Rosa, CA 95403

LDJ:bms

Enc.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Provisional Patent Application

**IV COMPATIBLE LIMB STABILIZATION APPARATUS,
INCLUDING HUMAN APPLICATION**

Inventor:
Lester M. Schwab

CERTIFICATE OF MAILING BY U.S.P.S. EXPRESS MAIL

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The undersigned hereby certifies that this Patent Application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" in accordance with the provisions of 37 CFR Section 1.10 on the date indicated above, and is addressed to:

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P.O. Box 1450

Alexandria, VA 22313-1450



Larry D. Johnson, Registration No. 31,528

JOHNSON & STAINBROOK, LLP

3558 Round Barn Blvd., Suite 203
Santa Rosa, California 95403
707.578.9333

Attorney Docket No. 00861.P2

**IV COMPATIBLE LIMB STABILIZATION APPARATUS,
INCLUDING HUMAN APPLICATION**

5 Inventor: Lester M. Schwab

CROSS REFERENCE TO RELATED APPLICATIONS

10 [0001] This application is related to co-pending Provisional Application Serial No.60/537,670,
filed January 20, 2004, by applicant herein, which application is hereby incorporated by reference
in its entirety herein.

BRIEF SUMMARY OF THE INVENTION

15 [0002] The present invention provides an improvement to the IV COMPATIBLE LIMB
STABILIZATION APPARATUS disclosed in co-pending Provisional Application Serial
No.60/537,670, filed January 20, 2004, by applicant herein. The present application discloses a
device particularly suited for human application.

DETAILED DESCRIPTION OF THE INVENTION

20 [0003] The present invention is described in the attached sheets and drawing page.

IV Compatible Limb Stabilization

Post Office Box 2880 ♦ Danville, California 94526-7880 ♦ Phone/Fax (925) 831-0696 ♦ AnimalALERT@aol.com

FOR USE IN HUMAN MEDICINE

In veterinary medicine this device is placed dorsally on the leg.

In human medicine this device can be placed dorsally or ventrally but will work best when placed at the crook in the elbow (ventrally).

All units would be closed at the bottom and when applied to the arm a gauze pad would be placed at the bottom to prevent chafing of the skin. It's a good idea to pad the upper 1/4 portion of the splint also.

Only one or two areas ventral to the elbow need be taped to secure this device to the arm.

No taping is required or desired dorsal to the elbow, as the intent is simply to prevent the arm from bending more than 45 degrees and setting off the pump alarm.

→ NOT ENCLOSED

The enclosed samples (1 human marked H and 2 veterinary marked V) show the difference between those used in veterinary medicine and those used in human medicine. In veterinary medicine they must stretch the full length of the leg and the angle at the elbow is 47.5 degrees. In human medicine we need only sufficient length to properly bind to the arm (3 inches), the angle at the elbow changes to 53 degrees and the notch where the splint arms come together is extended by 1/2 inch to accommodate catheters placed there. These splints can be made any length, width, concavity or angle.

They can be made of plastic and could be washed and gas sterilized (at which time they could be used 8 to 10 times or more) or they could be made of stainless steel and autoclaved (and used indefinitely).

This device can be made in varied sizes, lengths, widths and concavities and can be used regardless of where the IV catheter may be placed on the arm.

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REASONS TO USE ARM STABILIZER IN HUMAN MEDICINE

The following costs are estimated and will vary from hospital to hospital.

My wife and I were in the hospital 3 months apart for gall bladder surgery. Each of us probably bent our arms 4 to 5 times daily just enough to set off the IV pump alarm (and my wife had one restart) necessitating that the nurse come in and reset the alarm.

There are times when the arm bending caused a blood clot at which time the catheter would have to be replaced in the other arm (restart).

This took time away from other patients and increased the cost to the hospital.

Unscheduled nurse visits	\$10.00 to \$20.00 each.
Unscheduled restarts of IV	\$80.00 to \$100.00
IV kit	\$70.00 to \$100.00
Total	\$160.00 to \$220.00

You can see where 3 unscheduled visits plus one restart can add up.

Using these splinting devices in human medicine will save the hospital considerable money over time.

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TYPES OF PATIENTS TO USE SPLINTING DEVICE WITH THEIR IV

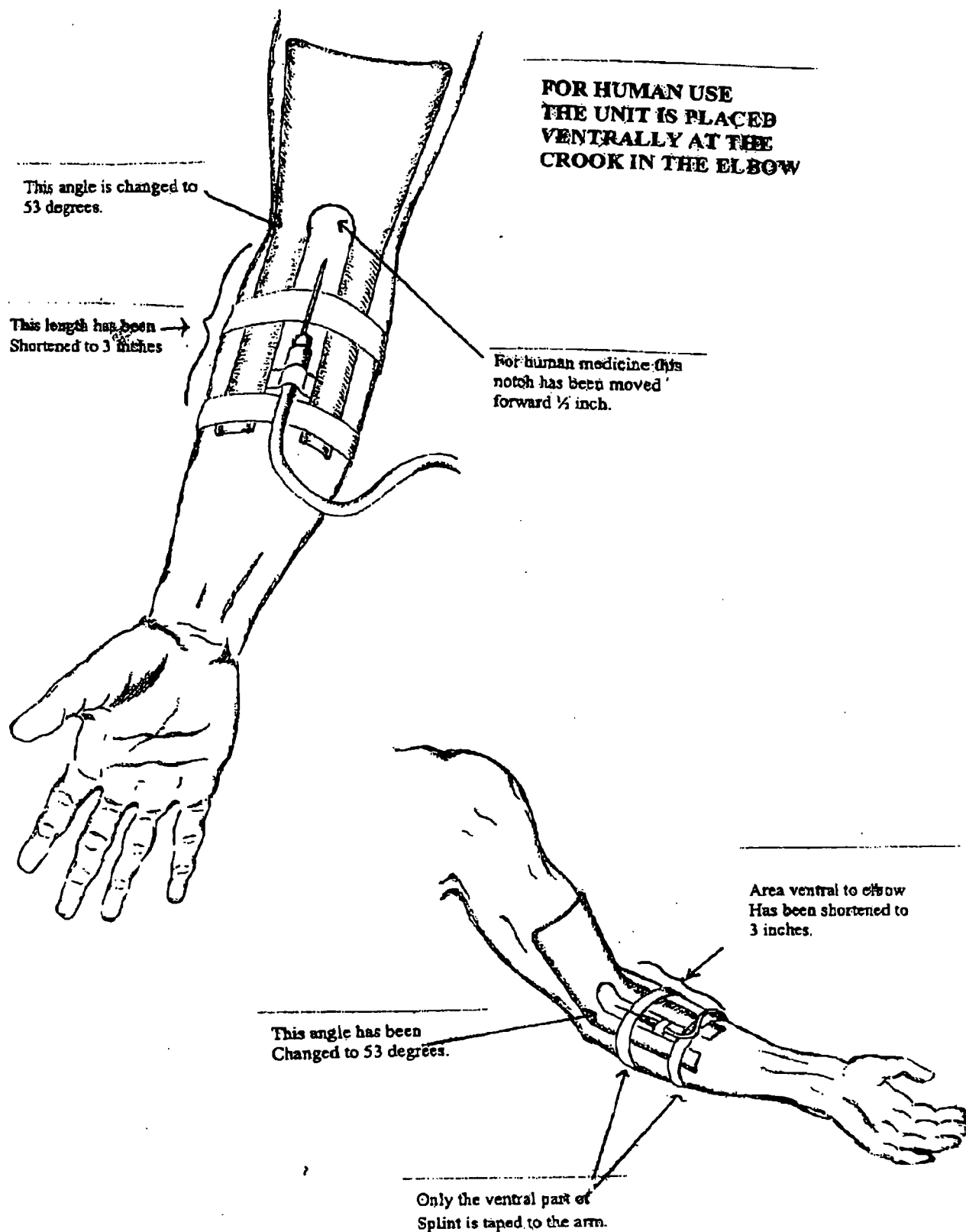
- Any patient that is thrashing about such as trauma cases, drug cases and semi comatose patients.
- Pediatrics when it is difficult to tell them to hold their arm still.
- Any patient requiring long term IV therapy.
- Surgery cases.
- Cancer patients.

Note:

The only thing presently used is a padded board bound to the arm ventrally and extending from the wrist to above the elbow. This is extremely uncomfortable and will end up with a very stiff arm.

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